

ABSTRACT

According to one embodiment of the invention, there is provided a method of calibrating an N-port multiport test system for measurement of a DUT. The method consists of coupling each port of an N-port automatic calibration device to a respective port of the N-port multiport test system, and presenting three reflection standards with the automatic calibration device to each port of the N-port multiport test system. The method also consists of providing with the automatic calibration device, N-1 through conditions of a possible $N(N-1)/2$ possible through conditions, between corresponding ports of the N-port multiport test system, and making measurements with the N-port multiport test system of the three reflection standards at each port and the N-1 through conditions between the corresponding ports. The method further consists of determining all of systematic error coefficients for all of the ports of N-port multiport test system.

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